



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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April 25, 1994

Mr. Alan Wilson
Senior Reclamation Engineer
Hecla Mining Company
6500 Mineral Drive
Box C-8000
Coeur d'Alene, Idaho 8381 4-1931

Re: Approval of Reclamation Plan Amendment, Escalante Tailings Impoundment, Hecla Mining Company, Escalante Silver Mine, M/021/004, Iron County, Utah

Dear Mr. Wilson:

The Division has reviewed your April 8, 1994 submittal, wherein you request approval to substitute manure for the hay mulch that was originally approved by this Division and BLM as part of the recently revised tailings impoundment reclamation plan. We are prepared to approve of your proposal with the following conditions:

1. Assuming that the source of the manure is from a dairy or cattle feedlot, the proposed substitution and proposed application rate is acceptable. Hecla needs to confirm the source(s) of the manure (sources other than those assumed could cause revegetation problems).
2. In order to confirm the nutrient content and basic composition of the manure, we will require that a representative composite grab sample(s) of the stockpiled source material be analyzed for the following constituents: ph, Ec (conductivity), Cation Exchange Capacity (CEC), Carbon:Nitrogen ratio, Nitrate Nitrogen, Phosphorus and Potassium. *(Note: If multiple manure sources/sites are used, then a respective composite grab sample must be analyzed from each source).*

The Division concurs with the proposed timing for seeding (November/94). Ideally, seeding should take place as late in the fall as possible.

We have discussed your proposal with the BLM, Beaver River Resource Area and have been verbally informed that they have no problem with the proposed substitution. If you have questions or concerns with this review, please contact me at (801) 538-5340.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
cc: Arthur Tait, BLM, Beaver River RA
Lowell Braxton, DOGM
Minerals Staff (route)

M021004.rec

